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TOP SECRET

NSC BRIEFING

11 August 1954

PERFORMANCE OF SOVIET

25X1D

25X1X7

heavy bomber's probable performance, as it will be in 1957, now available. Table shows both joint estimate and earlier estimate by USAF alone.

25X1X71

والمتعافض يتعلق	Optimum	Mission	US Estin Optimum	
Take off weight	365,000	lbs.	345,000	lbs.
Bomb load	10,000	lbs.	10,000	lbs.
Combat radius	3,000	nm.	2,600	nm.
Combat range	5,900	nm.	5,100	nm.
Target altitude	43,000	ft.	43,700	ft.
Maximum targets speed	490	kts.	487	kts.

TOD SECRET

II. This performance estimate (with 10,000 lb. bomb load, i.e. multi-megaton weapon)* indicates that, in absence forward staging (on Chukotsk) and range extension (inflight refueling or one-way missions), striking power is still generally oriented toward Europe, Asia, and peripheral areas. Thus, full measure of threat to US depends upon:

25X1D

25X1D

A. Soviet development of in-flight refueling (capability not yet demonstrated and requiring 18-24 months to

develop).

25X1D

B. Soviet decision in 1957 to expend all

50 then estimated to be
operational on missions where only
half might be expected to reach targets.

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^{*} For other bomb-weight computations, see "Background - Bomb Load Variations"

TOP SECRET

III. New performance estimate, therefore, leaves
mid-1957 picture unchanged. Conventional
TU-4 would still figure prominently; 25X1D
medium jet would be powerful
element of strength against Eurasian and
peripheral targets; would just be
reaching significant quantities.

25X1D

- A. In view Soviet nuclear capabilities, picture is serious, formidable.
- B. But picture not particularly alarming as regards continental US.

C. With subsequent combination of series production, forward staging bases in operational condition, and development of effective in-flight refueling, however, Soviet air threat to US increases sharply - becomes very grave by 1958-59.

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BACKGROUND - BOMB LOAD VARIATIONS

25X1D

- I. By decreasing the bomb load from10 to 3 thousand lbs. and putting the7 thousand lb. saving into fuel, the combat radius/range is slightly extended.
- II. However, a 3,000 1b. nuclear weapon would be only marginally acceptable as a strategic weapon.
 - A. If economically constructed, a3,000 lb. weapon could yield some20KT--equal to the Nagasaki bomb.
 - B. If extravagant and inefficient use of nuclear material permitted, this yield could be boosted.
- III. Uneconomical use of nuclear material in 1957 appears improbable, since the Soviet stockpile at that date will still be relatively modest.

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COMPARISON: TYPE 39 AND US B-52 "BASIC MISSION"*

25X1A9a

25X1D

Estimate:	

US B-52

Take off weight 365,000 lbs.

390,000 lbs.

Bomb

load

10,000 lbs.

10,000 lbs.

Combat

radius

2,575 nm.

3,160 nm.

Combat

range

5,050 nm.

6,560 nm.

Target

altitude 40,000 ft.

46,700 ft.

Maximum target

speed

490 kts.

480 kts.

* "Basic Mission" contrasts with "Optimum Mission" in that all conditions assumed for an "Optimum Mission" are aimed at maximum possible fuel-load and therefore absolute maximum radius/range.